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## SUPPLEMENT 7 TO

# JOINT EVALUATION OF SOVIET MISSILE THREAT IN CUBA

#### PREPARED BY

Guided Missile and Astronautics Intelligence Committee

Joint Atomic Energy Intelligence Committee

National Photographic Interpretation Center

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NOTICE	
Emphasis continues to be placed on the READINESS status, pace of construction and any significant changes at the offensive missile sites in Cuba. This report is based primarily upon detailed analysis of the 25 October low-altitude coverage (see Figure 1).	
SUMMARY	
1. Detailed analysis confirms the rapid pace of construction reported in our last supplement. As of there was <u>no</u> evidence indicating any intention to halt construction, dismantle or move these sites.	2
2. There are no changes in the dates of estimated operational capability for the MRBM and IRBM sites. Five of the six MRBM sites are now believed to have a full operational capability and the sixth is estimated to achieve this status tomorrow— (see Figure 2). This means a capability to launch up to 24 MRBM (1020 nm) missiles within 6 to 8 hours of a decision to do so, and a refire capability of up to 24 additional MRBMs within 4 to 6 hours (see Table 1).	2
3. No additional MRBM missiles, missile transporters, or erectors have been identified (see Table 1). To date, we have observed a total of 33 MRBM missiles.	
4. No IRBM missiles, missile transporters, erectors or associated equipment have been observed to date.	
5. No new missile sites have been identified; there has been no high-altitude coverage suitable for searching the Remedios area for the suspect second IRBM site since see Table 1 and	2
Figure 1).	

7. Photography	confirmed the presence
7. Photography  a FROG missile launcher in a vehicle pa	confirmed the presence
<u> </u>	rk near Remedios. (The FROG
FROG missile launcher in a vehicle pa	rk near Remedios. (The FROG
FROG missile launcher in a vehicle partactical unguided rocket of 40,000 to 50 the U.S. Honest John).	ok near Remedios. (The FROG 000 yard range, and is similar
FROG missile launcher in a vehicle partactical unguided rocket of 40,000 to 50 the U.S. Honest John).  8. There has been no COMINT of	other evidence of attempts at
FROG missile launcher in a vehicle partactical unguided rocket of 40,000 to 50 the U.S. Honest John).	other evidence of attempts at

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DISCUSSION	
OFFENSIVE MISSILE READINESS (Figure 2)	
General	÷
1. Previous reports have defined the two types of Soviet MRBM/IRBM operational capability as Emergency Operational Capability and Full Operational Capability. At this time five of the six MRBM sites have already achieved a full operational capability. The sixth site will probably be fully operational on 28 October.	
2. As sites achieve a full operational capability, reports indicate that a Soviet MRBM unit progresses through four readiness conditions as described in Figures 5, 5a and 5b. It is estimated that the Soviet MRBM can be held at Readiness 1 (30 minutes to Launch) for many hours.	2
San Cristobal Area	
3. Site 1 (22-40-05N 83-17-50W)  Last coverage: Low-level	25) 25)
a. Readiness Status	
This site has a full operational capability.	
b. Supporting Evidence	
Analysis confirms that all four launch stands and erectors are placed at prepared launch positions and cabling has been laid. Four probable theodolite stations have been identified in the launch areas. Of the eight previously identified missile transporters, only four are now visible. One	

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cable extends from at least one of the missile-ready tents to probable generators in the woods. Construction of the security fence is essentially complete.

#### c. Significant Trends

Construction and continued site preparation is very evident. Covering or camouflage netting is being placed over most missile-associated equipment in the area.

4. Site 2 (22-41-00N 83-15-00W)

Last coverage: Low-level

a. Readiness Status

This site now has a full operational capability.

#### b. Supporting Evidence

All four erectors and launch stands are covered and are emplaced on prepared launch positions. All four hardstands for the missile transporter and for probable theodolite stations are under construction. Cabling is laid from three launch stands to probable control vans and generators. Darkness of photography precludes observation of cabling at the fourth launch position. Four missile-ready tents are complete and one is under construction. Cabling extends from two missile-ready tents to probable generators in the woods. Five fuel and 16 oxidizer trailers are located near one launch position. At one position a "cherry picker" is identified in the immediate launch area. No apparent effort has been made to camouflage equipment but canvas, which has been in place for some time, conceals small items.

### c. Significant Trends

A more detailed analysis of photography shows that all launch positions are in an advanced state of preparation and that construction and missile preparation is continuing at a rapid rate.

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5 <b>.</b> .	
	Last coverage: Low-level
	a. Readiness Status
Thi	s site is considered to have a full operational capability.
	b. Supporting Evidence  change since last report. As of all four erectors and
Cabling Constru Trea ad Type bu Four p	stands appeared to be in place at the prepared launch positions.  was in position. Only four missile-ready tents had been erected.  action activity was still continuing in the probable regimental support  jacent to the launch site. Only four of the eight permanent barracks-  ildings were completed. Personnel were still quartered in tents.  robable theodolite stations have been identified about 60 to 70 feet  e pads.
	c. Significant Trends
missile have a	propellant trailers had arrived at this site, and only one possible transporter had been observed. Although this site is estimated to full operational capability, missiles and propellants would have to aght in from another location.
6.	Site 4 (22-46-55N 82-58-50W) Last coverage:
	a. Readiness Status
Th	is site will probably achieve full operational capability on
	b. Supporting Evidence change since last report. However, available evidence at the other

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c. S	Significant Trends	
Low-leve	el photography of did not cover this	site.
gua La Gra	<u>inde</u>	
7. Site	<u>1</u> (22-43-44N 80-01-40W)	, ,
Last	t coverage: Low-level	
		•
a. F	Readiness Status	
This site	e is considered to have a full operational status	S
b. S	Supporting Evidence	
otography		which appears
notography be compl		which appears
notography be compl omplement o	of covers only one launch position lete with erector, launch stand and installed	which appears
be complomplement of c. S	of covers only one launch position lete with erector, launch stand and installed of 8 fuel and 16 oxidizer trailers is present.	which appears cabling. A full
be complomplement of c. S	of covers only one launch position lete with erector, launch stand and installed of 8 fuel and 16 oxidizer trailers is present.  Significant Trends	which appears cabling. A full
be complomplement of the complement of the complement of the construction of the complex of the	covers only one launch position lete with erector, launch stand and installed of 8 fuel and 16 oxidizer trailers is present. Significant Trends etion activity and improvements appear to be 2 (22-39-10N 79-51-55W)	which appears cabling. A full
be complomplement of the complement of the complement of the construction of the complex of the	covers only one launch position lete with erector, launch stand and installed of 8 fuel and 16 oxidizer trailers is present.  Significant Trends ction activity and improvements appear to be	which appears cabling. A full
totography be complomplement of the complement o	covers only one launch position lete with erector, launch stand and installed of 8 fuel and 16 oxidizer trailers is present. Significant Trends etion activity and improvements appear to be 2 (22-39-10N 79-51-55W) t coverage: Low-level	which appears cabling. A full
to tography be complomplement of the complement	covers only one launch position lete with erector, launch stand and installed of 8 fuel and 16 oxidizer trailers is present. Significant Trends etion activity and improvements appear to be 2 (22-39-10N 79-51-55W) t coverage: Low-level	which appears cabling. A full
to tography be complomplement of the complement	covers only one launch position lete with erector, launch stand and installed of 8 fuel and 16 oxidizer trailers is present. Significant Trends etion activity and improvements appear to be 2 (22-39-10N 79-51-55W) t coverage: Low-level	which appears cabling. A full
totography be complement of the complement of the complement of the complement of the construction of the	covers only one launch position lete with erector, launch stand and installed of 8 fuel and 16 oxidizer trailers is present. Significant Trends etion activity and improvements appear to be 2 (22-39-10N 79-51-55W) t coverage: Low-level	which appears cabling. A full
totography be complement of the complement of the complement of the construction of th	covers only one launch position lete with erector, launch stand and installed of 8 fuel and 16 oxidizer trailers is present. Significant Trends etion activity and improvements appear to be 2 (22-39-10N 79-51-55W) t coverage: Low-level Readiness Status e has a full operational capability.	e continuing at the emplaced on the transporters

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near a group of three missile-ready tents. Two large ducts lead from the vans to the tents. These ducts may be for heating, airconditioning or dehumidifying the tents. A full complement of eight fuel and sixteen oxidizer trailers are present.
c. Significant Trends
Tall poles which are being erected at one launch position are probably intended to support camouflage netting which will cover the entire launch position. Site preparation and improvement is definitely continuing.
Guanajay Area
9. <u>Site 1</u> (22-57-00N 82-39-25W)  Last coverage: Low-level
a. Readiness Status
It is estimated that this IRBM site will have an emergency operational capability on 15 November and full operational capability by 1 December providing construction activity continues as currently observed.
b. Supporting Evidence
Construction is continuing at this site. Concrete slabs are stacked near the probable location of a ready building and a mobile crane is nearby. Foundations have started for a second ready building. Two of the eight propellant storage tanks have been placed in an excavation at one of the pads.
c. Significant Trends
Preparation of the site is continuing.
10. <u>Site 2</u> (22-57-25N 82-36-55W)
Last coverage: Low-level

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a. Readiness Status	
It is estimated that this IRBM site will have an emergency operational	
capability by 1 December and full operational capability by 15 December	
providing construction activity continues as currently observed.	
b. Supporting Evidence	
Construction continues at this site. The roof of the rectangular building near the pads is nearly complete. The concrete blocks in one wall of one of the control buildings are in place. The square concrete conduit segments have been put in one of the trenches. Two of the other trenches have these segments along side. Segments are brought to the site one at a time on trucks. There are 3 mobile cranes operating on site.	
c. Significant Trends	
Preparation of this launch site continues. Photography shows continuing activity and the presence of personnel at this site.	
Remedios Area	
11. Site 1 (22-25-00N 79-35-00W)	25 <b>X</b> 1
Last coverage:	
a. Readiness Status	
This site should have an emergency operational capability by 1 December and full operational capability by 15 December.	
b. Supporting Evidence	
No new photography of this site is available.	
c. Significant Trends	
Additional analysis of low-level photography of shows an improved road with wide radius turns approximately 3 1/2 miles south-	25X1

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st of this site. The road terminates	at the edge of a wooded area which
y possibly be the planned location	
	ated concrete forms and other con-
ruction material in open storage are	eas would be adequate to support an
dditional site.	
and Control	
ommand and Control	•
UCLEAR WARHEADS FOR OFFENSIV	VE MISSILES
13. Mr. Krushchev on 24 Octo	ober in a private conversation with
13. Mr. Krushchev on 24 Octo	ober in a private conversation with ouse International, claimed to have
Villiam Knox, President of Westingho allistic missiles with both convention	ober in a private conversation with ouse International, claimed to have nal and nuclear warheads in Cuba at
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13. Mr. Krushchev on 24 Octobrilliam Knox, President of Westinghold Illistic missiles with both convention oviet manned missile sites under his of Mr. Krushchev on Soviet atomic extermining whether this statement is stablish the existence of Soviet nucleon examination of all information to be a conventional Likewise, we have not at Soviet MRBM/IRBMs have conventional MRBM sites which are	ober in a private conversation with ouse International, claimed to have nal and nuclear warheads in Cuba at direct control. Previous statements energy matters provide no guide for true or not. In any case, we cannot ear warheads or nosecones in Cuba date including low-level photography no evidence to support his statement tional warheads.  either considered to be operational is both the nosecones and warheads cobable nuclear bunkers are not yet

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#### Supply and Logistics

28 October. Stops are expected at Belgrade, Rabat, Conakry and Recife.

#### Coastal Defense

No change

### Air Defense Missiles

18. Photography processed during the last day shows that construction activity is continuing on the surface-to-air (SA-2) sites in Cuba. There is no change in the operational status of the 24 primary SA-2 sites.

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19. Of special significance is the probable identification of a MERCURY RASS communications van and antenna at San Julian from low-level photogphy of This communication system is used to transmit rly warning data to the SA-2 sites and provides intersite command and antrol communications for an SA-2 regiment (4 firing sites and one pport/assembly area). Intercept of this system can prove difficult cause its transmissions are directional. This is the first MERCURY RASS site observed in Cuba.
20. A SPOONREST acquisition and warning radar has been identified the Bahia Hondo SA-2 site from low-level photography of SPOONREST signals were intercepted from this general area on Six SPOONREST radars have been seen thus far and see have been intercepted by ELINT.
21. A detailed analysis of the 24 individual SA-2 sites shows that they re chosen so as to have negligible masking of their radio horizon by local stacles and terrain. This enhances their early acquisition and detection pability. Maps on a scale of 1:50,000 were used for this analysis which powed that most of the residual masking is caused by distant mountains. Therefore, the sites do not have a mask which exceeds 4 degree evation. Fourteen of the sites do not have a mask which exceeds one gree elevation. The results of the analysis are summarized in Table 4.
ctical Missiles
22. Low-level photography has provided the first confirmation of OG missile launchers in Cuba which were previously reported by Eugees. This is an unguided missile similar to the Honest John system, I has a range of about 50,000 yards. This launcher, probably for the OG 3 or 4 missile, was parked in a vehicle park 5 kilometers south of

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(see Figure 9).

Remedios adjacent to a vehicle which may be its missile transporter.

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Only partial coverage of MRBM and IRBM sites has been scanned. The following tentative conclusions may be drawn from a very preliminary analysis.

- There are indications of continuing construction at Guanajay IRBM sites 1 and 2. Coverage of Remedios sites has not been scanned.
- The limited evidence available indicates that construction and readiness preparation at all of the MRBM sites is continuing.

Status as of 0200 hours on 27 October 1962

	Sites		Laun	chers	Missiles		
Locations	Total	Probably	Total	Probably	Total	Prob Basic	
	Identified	Planned	Identified	Deployed*	Identified	Load**	
		MRB	M - Range	1020-nm (no	n-rotating e	arth)	
San Cristoba (2 regts)	al 4	4	15	16	23	32	
Sagua La Grande (1 regt)	2	2	8	8	10	16	
MRBM TOTA	AL 6	6	23	24	33.	48	
		IRB	M - Range	2200-nm (no	n-rotating e	arth)	
Guanajay (1 regt)	2	2	8 under constructi	. 8 lon	0	16	

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TABLE 2

TABULATION OF EQUIPMENT AT SOVIET MRBM SITES IN CUBA
Status as of 0200 hours 27 October 1962

	7. Mis. 7.	Erect	Laurer	Fuel 7		Missile 5		Electrons,	Generators CS
Authorized Equipment (Estimated)	8	4	4	8	16	8	4		
San Cristobal Area Site 1	8/5	4/4	4/4	8/8	16/16	7/7	4/4	10/10	6/6
Site 2 Site 2	6/3	4/4	4/4	6/4	16/16	5/5	4/4	0/0	1/1
Site 3	2/1	4/4	3/3	0/0	0/0	4/4	3/3	0/0	2/2
Site 4	7/7	4/4	0/0	0/0	7/7	0/0	0/0	0/0	0/0
Sagua La Grande Area Site 1	6/5	4/2	1/1	8/8	16/16	3/1	1/0	3/1	0/0
Site 2	4/3	4/4	3/3	8/8	16/16	5/5	2/2	1/1	5/5
TOTALS	33/24	24/22	15/15	30/28	71/71	24/22	14/13	14/12	14/14

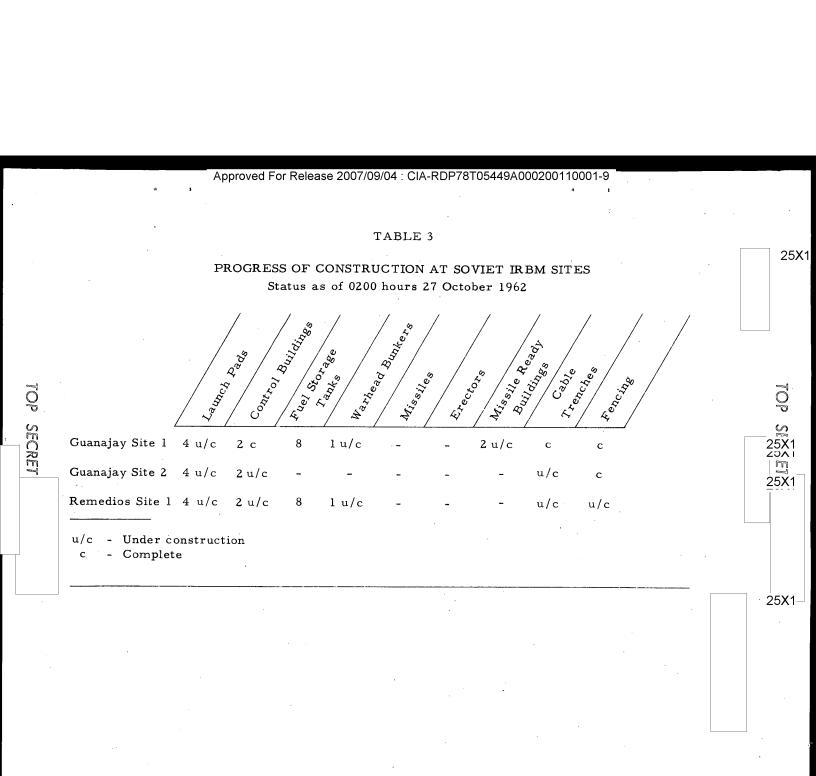
NOTE: a/b a - Highest number observed at any one time.

Dense foliage and camouflage precludes the positive identifiecation of some vehicles.

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b - Number observed last time site was covered (see Figure 1).



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 $\label{table 4}$  RADIO HORIZON LIMITATIONS AT PRIMARY SA-2 SITES

<u></u>	Height Above	Distance From	Elevation of
Site	Sea Level (Meters)	Coastline (KM)	Highest Masks
Chaparra 30		18	less than l <sup>o</sup>
Ciego De Avila	15	9	less than 10
Deleite #1	35	11	less than 10
Esmeralda	25	22	less than 10
Havana East	50	3	less than l <sup>o</sup>
La Coloma	15	9	less than 10
Los Angeles	120	7	less than l <sup>o</sup>
Manati	30	20	less than 10
Manzanillo	80	6	less than 10
Mariel	25	1	less than 10
Mantanzas	45	2	less than 10
Sagua La Grande	5	10	less than 10
San Julian	15	18	less than 10
Senado	30	15	less than 10
Caibarien	20	7	1.1°
Chambas	30	18	1.7°
Bahia Hondo	10	1	1.9°
Jiguani	140	47	1.9°
Cienfuegos	40	2	2.1°
Santa Lucia #1	10	2	2.2°
Santiago De Cuba	90	2	3.2°
Cabanas	50	20	3.3 <sup>o</sup>
Sancti Spiritus	70	19	3.7°
Seguena	20	3	7.1°
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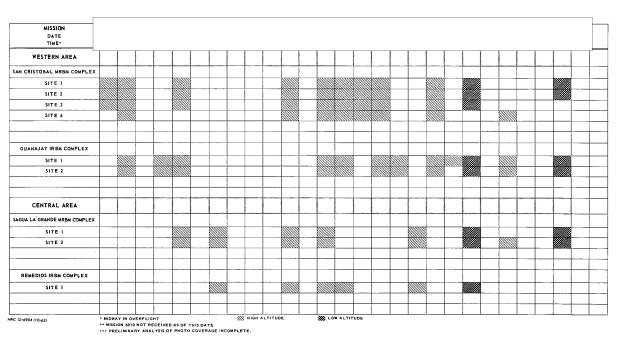
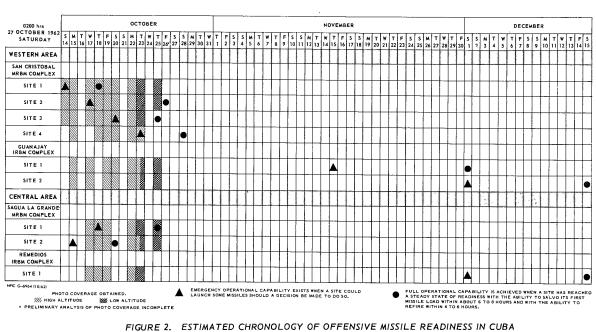


FIGURE 1. SUMMARY OF PHOTOGRAPHIC COVERAGE OF OFFENSIVE MISSILE SITES IN CUBA.

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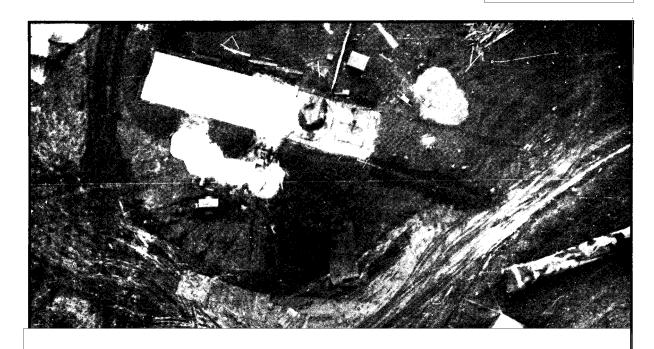




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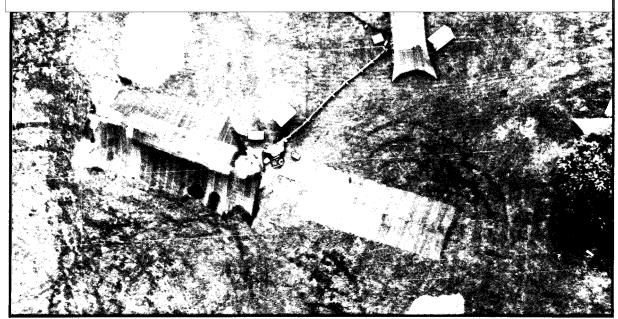


FIGURE 4. LAYOUT AND EQUIPMENT OF A SOVIET MRBM AREA, CUBA.

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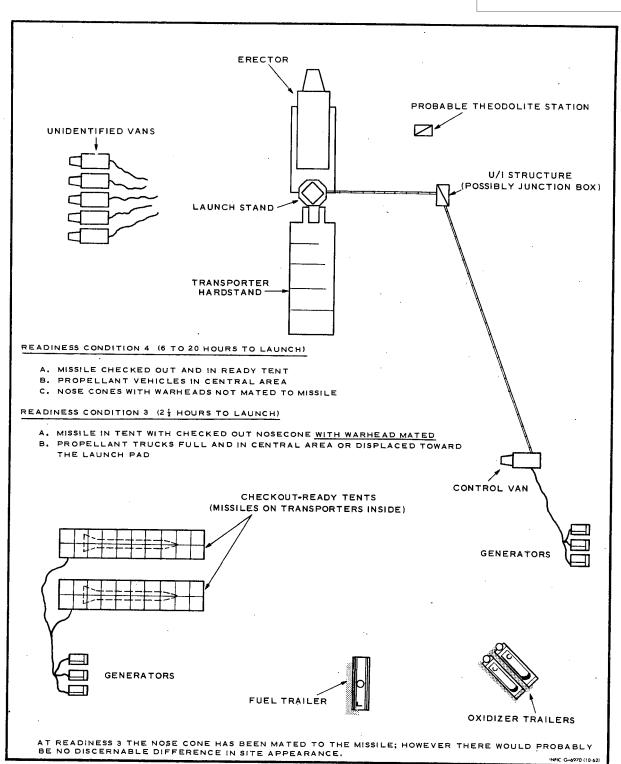


FIGURE 5. PROBABLE APPEARANCE OF FULLY ORGANIZED MRBM LAUNCH POSITION AT READINESS CONDITIONS 4 AND 3 (As derived from reports).

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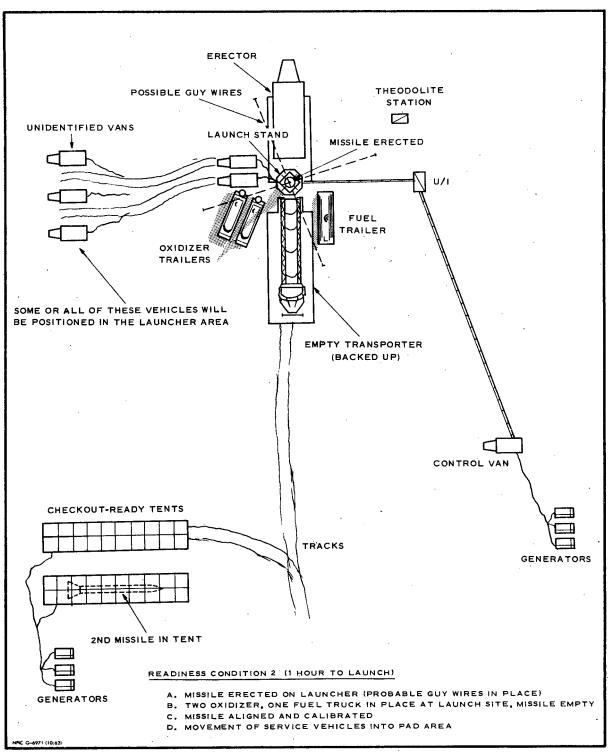


FIGURE 5a. PROBABLE APPEARANCE OF FULLY ORGANIZED MRBM LAUNCH POSITION AT READINESS CONDITION 2 (As derived from reports).

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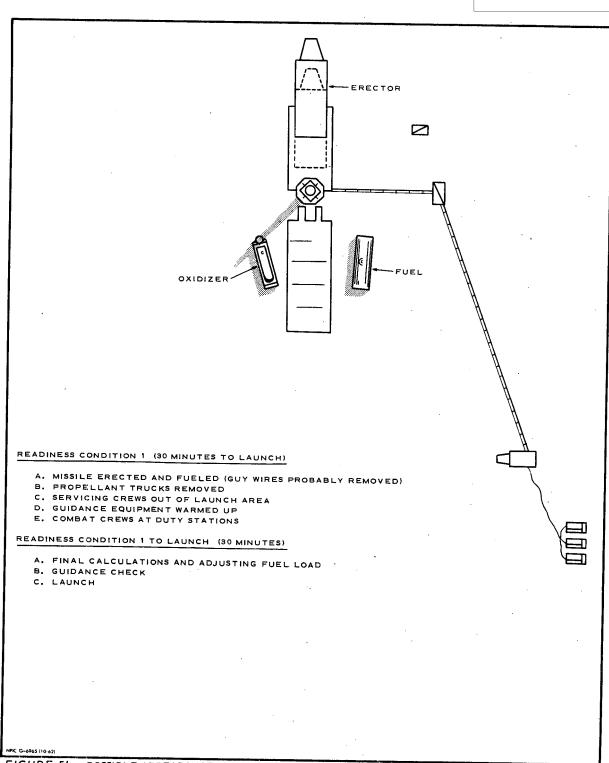


FIGURE 5b. POSSIBLE APPEARANCE OF FULLY ORGANIZED MRBM LAUNCH POSITION AT READINESS CONDITION 1 (As derived from reports).

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